

# PATENT ABSTRACTS OF JAPAN

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## (54) SOUND IMAGE CONTROLLER

### (57)Abstract:

**PURPOSE:** To control a sense of direction of a sound image independently of a listening position by controlling a phase characteristic of plural phase shifters so that a synthesized wave front of a reproduced sound of all speakers is independent of its frequency but depending on an angle inputted to a wave front angle input means.

**CONSTITUTION:** A phase characteristic controller controls the phase characteristic of plural phase shifters 104-106 based on a wave front angle inputted to a wave front angle input means 101. Then plural speakers 107-109 arranged at a predetermined position reproduce outputs of the phase shifters 104-106. In this case, the phase characteristic controller controls the phase characteristic so that the synthesized wave front of the reproduced sound from all the speakers 107-109 is independent of the frequency but depending on an angle inputted to the wave front angle input means 101. thus, a listener receives an impression as if sound were radiated from a direction of wave front and the sense of direction is controlled.

